

# 2010 LUMIX® GF1 DIGITAL CAMERA



**HIGH QUALITY PERFORMANCE IN AN ULTRA-COMPACT, STYLISH DESIGN**  
DSLR picture quality in a compact design.

**HD MOVIE RECORDING IN AVCHD LITE FORMAT**  
Record HD quality movies.



**INTELLIGENT AUTO MODE WITH PERIPHERAL DEFOCUS**  
Automatically adjusts to ensure great photos under any condition.

- Digital Interchangeable Lens System
- 14–45mm Zoom Lens Kit (28–90mm in 35mm Equivalent): DMC-GFIK-K
- 20mm Pancake Lens Kit (40mm in 35mm Equivalent): DMC-GFIC-K
- Micro Four-Thirds System
- Built-In Flash
- 12.1 Megapixel Live MOS Sensor
- Venue Engine HD

**Panasonic® LUMIX®**



# 2010 LUMIX® DMC-GF1 Digital Camera Specifications

TYPE	Type	Digital interchangeable lens system camera				
	Recording media	Recording media SD memory card, SDHC memory card				
	Image sensor size	17.3 x 13.0 mm (in 4:3 aspect ratio)				
	Lens mount	Micro Four Thirds mount				
IMAGE SENSOR	Type	Live MOS Sensor				
	Total pixels	13.1 Megapixels				
	Camera effective pixels	12.1 Megapixels				
	Color filter	Primary color filter				
	Dust reduction system	Supersonic wave filter				
RECORDING SYSTEM	Recording file format	Still Image: JPEG(DCF, Exif 2.21), RAW, DPOF compatible Still Image with Audio: JPEG(DCF, Exif 2.21) + QuickTime Motion Image: AVCHD Lite / QuickTime Motion JPEG				
	Aspect ratio	4:3, 3:2, 16:9, 1:1				
	Image quality	RAW, RAW+Fine, RAW+Standard, Fine, Standard				
	Color space	sRGB, Adobe RGB				
	File size(Pixels)	Still Image	[4:3] 4000 x 3000(L), 2816 x 2112(M), 2048 x 1536(S) [3:2] 4000 x 2672(L), 2816 x 1880(M), 2048 x 1360(S) [16:9] 4000 x 2248(L), 2816 x 1584(M), 1920 x 1080(S) [1:1] 2992 x 2992(L), 2112 x 2112(M), 1504 x 1504(S)			
			Motion Image	Motion JPEG	[4:3] OVGA: 320 x 240, 30fps/VGA: 640 x 480, 30fps [16:9] WVGA: 848 x 480, 30fps [HD] 1280 x 720, 30fps	
					[HD] 1280 x 720, 60p (sensor output is 30fps)(SH: 17Mbps, H: 13Mbps, L: 9Mbps)	
					AVCHD LITE NTSC	
	Continuous recordable time (Motion Images)		AVCHD Lite with picture quality set to [SH]: Approx. 210 min with H-H020/Approx. 170 min with H-FS014045 Motion JPEG with picture quality set to [HD]: Approx. 210 min with H-H020/Approx. 170 min with H-FS014045			
	Actual recordable time (Motion Images)		AVCHD Lite with picture quality set to [SH]: Approx. 110 min with H-H020/Approx. 100 min with H-FS014045 Motion JPEG with picture quality set to [HD]: Approx. 110 min with H-H020/Approx. 100 min with H-FS014045			
	FOCUS	Type	Contrast AF system			
		Focus mode	AFS/AF/MF			
AF mode		Face detection/AF Tracking/23-area-focusing/1-area-focusing				
AF detective range		EV 0-18 (F3.5 lens, ISO 100)				
AF assist lamp		YES				
AF lock		AF/AE LOCK button or Shutter button halfway pressed in AFs mode				
Others		Pre AF(Quick AF/Continuous AF)/AF+MF, MF Assist(5x, 10x)				
EXPOSURE CONTROL		Light metering system	144-zone multi-pattern sensing system			
Light metering mode	Intelligent Multiple/Center Weighted/Spot					
Metering range	EV 0-18 (F2.0 lens, ISO 100)					
Exposure mode	Program AE, Aperture Priority AE, Shutter Priority AE, Manual					
ISO sensitivity (Standard Output Sensitivity)	Auto/100/200/400/800/1600/3200/Intelligent ISO					
Exposure compensation	1/3EV Step ±3EV					
AE lock	AF/AE LOCK button or Shutter button halfway pressed					
AE bracket	3.5, 7 frame, in 1/3 or 2/3 EV Step, ±2 EV					
WHITE BALANCE	White balance	Auto/Daylight/Cloudy/Shade/Halogen/Flash/White Set 1,2/Color temperature setting				
	White balance adjustment	Blue/amber bias, Magenta/green bias				
	Color temperature setting	2500-10000K in 100K				
	White balance bracket	3 exposures in blue/amber axis or in magenta/green axis				
SHUTTER	Type	Focal-plane shutter				
	Shutter speed	Still Images: 1/4000 ~ 60 and Bulb (up to approx. 4 minutes)				
	Self timer	2sec/10sec/10sec, 3 images				
	Remote control	Remote control with bulb function by DMW-RSL1 (Optional)				
SCENE MODE	Still Image SCN mode	Portrait/Soft Skin/Scenery/Architecture/Sports/Peripheral Defocus/Flower/Food/Objects/Night Portrait/Night Scenery/Illuminations/Baby 1,2/Pet/Party/Sunset				
	Movie SCN mode	Portrait/Soft Skin/Scenery/Architecture/Sports/Flower/Food/Objects/Low Light/Party/Sunset (Activated by selecting Still Image SCN mode then pressing Movie Button. Still Image SCN modes without corresponding Movie SCN mode is recorded in Normal mode or other related mode.)				
MY COLOR MODE	My Color Mode	Expressive/Retro/Pure/Elegant/Monochrome/Dynamic Art/Silhouette/Custom/Color/Brightness/Saturation/adjustable				
BURST SHOOTING	Burst speed	3 frames/sec (High speed) or 2 frames/sec (Low speed)				
BUILT-IN FLASH	Number of recordable images	7 images (when there are RAW files with the particular speed) Unlimited consecutive shooting (when there are no RAW files) (depending on memory card size, battery power, picture size, and compression)*				
	Type	TTL Built-in-Flash, GN6.0 equivalent (ISO 100 mm), Built-in Pop-up				
	Flash mode	Auto, Auto/Red-eye Reduction, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off				
	Synchronization speed	Less than 1/160 second				
	Flash output adjustment	1/3EV Step ±2EV				
	Flash synchronization	1st. Curtain Sync, 2nd Curtain Sync.				
LCD MONITOR	Hot shoe	TTL Auto with FL220/FL360/FL500(Optional)				
	Type	Low temperature Polycrystalline TFT LCD				
	Monitor size	3.0inch/3:2 Aspect/Wide viewing angle				
	Pixels	460K dots				
	Field of view	Approx. 100%				
LIVE VIEW	Monitor adjustment	Brightness (7 levels), Color (7 levels)				
	LCD mode	Off/Auto Power LCD/Power LCD				
	Digital zoom	2x, 4x				
	Extra optical zoom	Max 2x				
FILM MODE	Other functions	(Not effective with L size recording, Magnification ratio depends on the recording pixels and aspect ratio.) Guide Lines (3 patterns) Real-time Histogram				
	Color	Standard/Dynamic/Nature/Smooth/Nostalgic/Vibrant				
	Black and white	Standard/Dynamic/Smooth				
PLAYBACK	Others	My Film1/My Film2/Multi Film				
	Playback mode	Normal playback, 30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (16x Max.), Slideshow, Playback Mode (Normal/Picture/AVCHD Lite/Motion JPEG/Category/Favorite), Title Edit, Text Stamp, Resize, Trimming, Aspect Conversion, Rotate, Rotate Display, Print Set, Protect, Audio Dubbing				
IMAGE PROTECTION/ERASE	Protection	Single/Multi or Cancel				
PRINT	Erase	Single/Multi/All/Except Favorite				
INTERFACE	Direct print	PictBridge compatible Print size, Layout, Date setting is selectable				
	USB	USB 2.0 High Speed				
	HDMI	miniHDMI TypeC Video: Auto/1080i/720p/480p Audio: Dolby® Digital Creator				
	Audio video output	Monaural Type, NTSC				
		—				
	Remote	2.5mm.				
	Built-in microphone	Monaural, Wind-cut: Off/Low/Standard/High				
	External microphone terminal	NO				
LANGUAGE	Speaker	YES				
	OSD language	English/Spanish/French/Portuguese				
POWER	Battery	ID-Security Li-ion Battery Pack (7.2V, 1250mAh) (Included) Battery Charger/AC Adapter (Input: 110-240V AC, DC Cable is required)				
	Battery life	CIPA Standard : Approx. 380 images(LCD), Approx. 430 images(optional LVF) with H-H020 Approx. 350 images(LCD), Approx. 400 images(optional LVF) with H-FS014045				
DIMENSIONS/WEIGHT	Dimensions (W x H x D)	119 x 71 x 36.3mm / 4.69 x 2.80 x 1.43 in				
OPERATING ENVIRONMENT	Weight	Approx. 285g / 10.05 oz Body only				
	Operating temperature	0°C to 40°C (32°F to 104°F)				
STANDARD ACCESSORIES	Operating humidity	10% to 80%				
	Software	PHOTOfunSTUDIO 4.0 HD Edition, SILKYPIX® Developer Studio 3.0 SE, USB Driver				
	Standard accessories	Battery Charger/AC Adapter, Battery Pack, Body Cap, AV Cable, USB Connection Cable, AC Cable, Shoulder Strap, CD-ROM				